

Brown and Caldwell

Carson City, Nevada

BORING LOG

Project Name: OU4 Phase 1 - Yerington Mine Evaporation Ponds

Project Number: 136742

Soil Boring: ☒

Monitoring Well: ☐

Piezometer: ☐

Boring/Well Name: OU4-FEP-16

Sheet 1 of 3

Boring Location: OU4 Finger Evaporation Ponds		Northing: 1553389.17	Easting: 321131.72
Drilling Contractor: Cascade		Top of PVC Elevation: Ground Surface Elevation: 4395.08 feet amsl	
Drilling Equipment: CME-75 Auger		Date Started: 10-29-08	Date Finished: Not recorded
Drilling Method: Hollow Stem Auger		Completed Depth: 90 ft bgs	Water Depth: Not recorded ft bgs
Sampling Method: Split Spoon		WELL CONSTRUCTION	
Well Seal: N/A		Type and Diameter of Well Casing: N/A	
Logged By: C. Haley		Slot Size: N/A	Filter Material: Cement grout
Driller: Tori		Borehole Diameter: 8"	
Drilling Fluid: N/A			

Depth (ft)	Elevation (famsl)	USCS Group Symbol	Material Description	Sample Type I Name	Sample Type I Location	Sample Type II Name	Sample Type II Location	Lithology	Remarks
5	4390	ML SM	SILT (Pond Sediments) (0 - 0.25) Dry, yellow. Silty SAND (Native Soil) (0.25 - 90) Note: Auger cuttings were not logged during drilling. Drilling becomes very hard at 55 feet. Sample: <u>OU4-FEP-16A-SC</u> from 2-3.5 feet. Sample: <u>OU4-FEP-16B-SC</u> from 65-66.5 feet. Sample: <u>OU4-FEP-16-GW</u> from 85-90 feet. Groundwater grab sample from temporary well (2" PVC with 5' screen interval and 0.1" slot size). Sample collected with disposable plastic bailer.	OU4-FEP-16A-SC					Description of drilled cuttings based on ASTM Method D-2488 (the visual-manual procedure), grain-size determinations and nomenclature based on the Unified Soil Classification System. Horizontal Survey data is expressed in the Nevada State Plane system, Nevada West zone, in feet. Sharp contacts indicated by solid lines, gradational contacts indicated by dashed line. All depths are below land surface unless stated otherwise. Type 1 Samples are representative of geochemical and geotechnical soil samples as well as groundwater samples. Type 2 Samples are representative of meteoric water mobility soil samples.
10	4385								
15	4380								
20	4375								
25	4370								
30	4365								

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Sheet 2 of 3

Depth (ft)	Elevation (famsl)	USCS Group Symbol	Material Description	Sample Type I Name	Sample Type I Location	Sample Type II Name	Sample Type II Location	Lithology	Remarks
40	4355								
45	4350								
50	4345								
55	4340								
60	4335								
65	4330			OU4-FEP-16B-SC					
70	4325								
75	4320								

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Depth (ft)	Elevation (famsl)	USCS Group Symbol	Material Description	Sample Type I Name	Sample Type I Location	Sample Type II Name	Sample Type II Location	Lithology	Remarks
80	4315								
85	4310								
90	4305		Bottom of Borehole at 90 feet below ground surface.	OU4-FEP-16-GW					
95	4300								
100	4295								
105	4290								
110	4285								
115	4280								
120	4275								